Exploring Aeronautics			
2007 Mathematics			
Curriculum Standards			
South Carolina Mathematics			
Grade 5			
Activity/Lesson	**State**	**Standards**	
Fundamentals of Aeronautics (145-176)	SC	MA.5.5-3.2	Analyze patterns and functions with words, tables, and graphs.
Science of Flight	SC	MA.5.5-1.2	Construct arguments that lead to conclusions about general mathematical properties and relationships.
Science of Flight	SC	MA.5.5-6.2	Analyze how data-collection methods affect the nature of the data set.
Integrating with Aeronautics	SC	MA.5.5-3.1	Represent numeric, algebraic, and geometric patterns in words, symbols, algebraic expressions, and algebraic equations.
Integrating with Aeronautics	SC	MA.5.5-3.2	Analyze patterns and functions with words, tables, and graphs.
Integrating with Aeronautics	SC	MA.5.5-3.3	Match tables, graphs, expressions, equations, and verbal descriptions of the same problem situation.
Scientific Method(124-144)	SC	MA.5.5-1.2	Construct arguments that lead to conclusions about general mathematical properties and relationships.
Scientific Method(124-144)	SC	MA.5.5-6.1	Design a mathematical investigation to address a question.
Scientific Method(124-144)	SC	MA.5.5-6.2	Analyze how data-collection methods affect the nature of the data set.

Exploring Aeronautics			
2007 Mathematics			
Curriculum Standards			
South Carolina Mathematics			
Grade 6			
Activity/Lesson	**State**	**Standards**	
Fundamentals of Aeronautics (145-176)	SC	MA.6.6-4.9	Classify pairs of angles as either complementary or supplementary.
Integrating with Aeronautics	SC	MA.6.6-1.3	Use inductive and deductive reasoning to formulate mathematical arguments.
Integrating with Aeronautics	SC	MA.6.6-1.4	Understand equivalent symbolic expressions as distinct symbolic forms that represent the same relationship.
Integrating with Aeronautics	SC	MA.6.6-1.5	Generalize mathematical statements based on inductive and deductive reasoning.
Integrating with Aeronautics	SC	MA.6.6-1.6	Use correct and clearly written or spoken words, variables, and notations to communicate about significant mathematical tasks.
Integrating with Aeronautics	SC	MA.6.6-2.6	Understand the relationship between ratio/rate and multiplication/division.
Intro to Aeronautics (109-123)	SC	MA.6.6-6.1	Predict the characteristics of one population based on the analysis of sample data.

Exploring Aeronautics			
2007 Mathematics			
Curriculum Standards			
South Carolina Mathematics			
Grade 7			
Activity/Lesson	**State**	**Standards**	
Fundamentals of Aeronautics (145-176)	SC	MA.7.7-3.2	Analyze tables and graphs to describe the rate of change between and among quantities.
Fundamentals of Aeronautics (145-176)	SC	MA.7.7-3.6	Represent proportional relationships with graphs, tables, and equations.
The Resource Center	SC	MA.7.7-3.5	Represent on a number line the solution of a two-step inequality.
Integrating with Aeronautics	SC	MA.7.7-3.2	Analyze tables and graphs to describe the rate of change between and among quantities.
Integrating with Aeronautics	SC	MA.7.7-3.4	Use inverse operations to solve two-step equations and two-step inequalities.
Integrating with Aeronautics	SC	MA.7.7-3.5	Represent on a number line the solution of a two-step inequality.
Intro to Aeronautics (109-123)	SC	MA.7.7-3.2	Analyze tables and graphs to describe the rate of change between and among quantities.
Intro to Aeronautics (109-123)	SC	MA.7.7-6.1	Predict the characteristics of two populations based on the analysis of sample data.
Scientific Method(124-144)	SC	MA.7.7-3.2	Analyze tables and graphs to describe the rate of change between and among quantities.
Scientific Method(124-144)	SC	MA.7.7-6.1	Predict the characteristics of two populations based on the analysis of sample data.
Exploring Aeronautics			
2007 Mathematics			
Curriculum Standards			
South Carolina Mathematics			
Grade 8			
Activity/Lesson	**State**	**Standards**	
Fundamentals of Aeronautics (145-176)	SC	MA.8.8-3.5	Classify relationships between two variables in graphs, tables, and/or equations as either linear or nonlinear.
Wings(177-208)	SC	MA.8.8-5.2	Explain the effect on the area of two-dimensional shapes and on the volume of three-dimensional shapes when one or more of the dimensions are changed.
The Resource Center	SC	MA.8.8-2.3	Represent the approximate location of irrational numbers on a number line.
Integrating with Aeronautics	SC	MA.8.8-1.3	Use inductive and deductive reasoning to formulate mathematical arguments.
Integrating with Aeronautics	SC	MA.8.8-1.4	Understand equivalent symbolic expressions as distinct symbolic forms that represent the same relationship.
Scientific Method(124-144)	SC	MA.8.8-6.2	Organize data in matrices or scatterplots as appropriate.

Scientific Method(124-144)	SC	MA.8.8-6.8	Interpret graphic and tabular data representations by using range and the measures of central tendency (mean, median, and mode).